

Express Mail Cert. No.
EV 216 779 624 US

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB C851-C031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	10/730,962
Filing Date	December 9, 2003
First Named Inventor	Banerjee, Chandra K.
Art Unit	1731
Examiner Name	To Be Assigned
Attorney Docket Number	00568/290996

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JBE	1	5,040,551	08-20-1991	Schlatter et al.	
	2	5,211,684	05-18-1993	Shannon et al.	
	3	5,240,014	08-31-1993	Deevi et al.	
	4	5,258,340	11-02-1993	Augustine et al.	
	5	4,182,348	01-08-1980	Seehofer et al.	
	6	6,286,516	09-11-2001	Bowen et al.	
	7	2,881,770	04-14-1959	Touey	
	8	3,353,543	11-21-1967	Sproull et al.	
	9	3,101,723	08-27-1963	Seligman et al.	
	10	4,481,958	11-13-1984	Ranier et al.	
	11	5,360,023	11-01-1994	Blakley et al.	
	12	5,404,890	04-11-1995	Gentry et al.	
	13	5,568,819	10-29-1996	Gentry et al.	
	14	6,537,186 B1	03-25-2003	Veluz	
	15	3,894,545	07-15-1975	Crellin et al.	
	16	4,947,874	08-14-1990	Brooks et al.	
	17	4,771,795	09-20-1988	White et al.	
	18	4,917,128	04-17-1990	Clearman et al.	
	19	4,967,774	11-06-1990	White	
	20	5,016,654	05-21-1991	Bernasek et al.	
	21	6,537,186 B1	03-25-2003	Veluz	
	22	4,452,259	08-05-1984	Norman	
	23	5,878,754	03-09-1999	Peterson et al.	
	24	5,103,844	04-14-1992	Hayden et al.	
	25	5,060,675	10-29-1991	Milford et al.	

Examiner
Signature

/John Edel/

Date
Considered

01/16/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 4

Complete if Known

Application Number	10/730,962
Filing Date	December 9, 2003
First Named Inventor	Banerjee, Chandra K.
Art Unit	1731
Examiner Name	To Be Assigned
Attorney Docket Number	00568/290996

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JBE	26	4,998,541	03-12-1991	Perfetti et al.	
	27	4,805,844	02-21-1989	Hampl, Jr. et al.	
	28	4,461,311	07-24-1984	Matthews et al.	
	29	4,450,847	05-29-1984	Owens et al.	
	30	4,420,002	12-13-1983	Cline et al.	
	31	4,231,377	11-04-1980	Cline et al.	
	32	4,474,190	10-02-1984	Brand	
	33	4,844,100	07-04-1989	Holzangel	
	34	5,156,169	10-20-1982	Holmes et al.	
	35	5,191,906	03-09-1993	Myracle, Jr. et al.	
	36	4,924,888	05-15-1990	Perfetti et al.	
	37	5,056,537	10-15-1991	Brown et al.	
	38	5,220,930	06-22-1993	Gentry	
	39	6,537,186 B1	03-25-2003	Veluz	
	40	5,396,911	03-14-1995	Casey et al.	
	41	2003-0188758	10-09-2003	Hajaligol et al.	
	42	10/382,244	03-05-2003	Crooks et al.	
	43	2002-0014453	02-07-2002	Lilly et al.	
	44	2003-0131859	07-17-2003	Li et al.	
	45	2003-0075193	04-24-2003	Li et al.	
	46	2002-0020420	02-21-2002	Xue et al.	
	47	20040134631	01-15-2003	Crooks et al.	
	48	2004/0255965	08-17-2003	Perfetti et al.	

Examiner
Signature

/John Edel/

Date
Considered

01/16/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO

(Use as many sheets as necessary)

Sheet	3	of	4
-------	---	----	---

Application Number	10/730,962
Filing Date	December 9, 2003
First Named Inventor	Banerjee, Chandra K.
Art Unit	1731
Examiner Name	To Be Assigned
Attorney Docket Number	00568/290996

[illegible]

Examiner Signature	/John Edel/	Date Considered	01/16/2007
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind's Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 4

Complete if Known

Application Number	10/730,963
Filing Date	December 9, 2003
First Named Inventor	Banerjee, Chandra K.
Art Unit	1731
Examiner Name	To Be Assigned
Attorney Docket Number	00568/290996

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JBE	53	DAVIS et al., <i>Tobacco Production, Chemistry and Technology</i> , (Eds.) 1999	
↓	54	XU et al., The Preparation of Highly Dispersed Au/Al ₂ O ₃ by Aqueous Impregnation, <i>Catalyst Letters</i> , Vol. 85, No. 3-4, 2003 p. 229	
↓	55	BERA et al., Combustion Synthesis of Nanometal Particles Supported on α -Al ₂ O ₃ : CO Oxidation and NO Reduction Catalysts, <i>Journal of Material Chemistry</i> , Vol. 9, pp. 1801-1805 (1999)	
↓	56	BOMBICK et al., <i>Fund. Appl. Toxicol.</i> , 39, p. 11-17 (1997).	
↓	57	ANDERSON, M.A., University of Wisconsin at Madison, October 2001	

Examiner
Signature

/John Edel/

Date
Considered

01/16/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

EXPRESS MAIL NO. EV 463 361 695 US

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1**Complete if Known**

Application Number	10/730,962
Filing Date	December 9, 2003
First Named Inventor	Banerjee et al.
Art Unit	1731
Examiner Name	To Be Assigned
Attorney Docket Number	00568/290996

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JBE	1	US-5,248,018	09/21/1993	Deevi et al.	
JBE	2	US- 4,256,609	03/17/1981	Dale et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JBE	1	EP 0 499 402 A1	08/19/1992	Philip Morris Products, Inc.		
JBE	2	WO03/020058	03/13/2003	Philip Morris Products, Inc.		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JBE	1	International Search Report mailed 06/23/2005 corresponding to PCT/US2004/041034	

Examiner Signature	/John Edel/	Date Considered	01/16/2007
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.